

PAROS Initiatives in Indonesia (Pilot Data from Malang)

Ali Haedar Emergency Physician & Lecturer Indonesia



 We would like to extend our thanks to the Asian Emergency Medical Services (EMS)
 Council for inviting Malang to participate in the Pan-Asian Resuscitation Outcomes Study (PAROS) Clinical Research Network





Improving Outcomes from Pre-hospital and Emergency Care across the Asia-Pacific

1 Feb 2012

Dean
Faculty of Medicine
University of Brawijaya
Jl. Veteran, Malang 65141
Indonesia

Dear Sir/Madam,

LETTER OF INVITATION TO PARTICIPATE IN THE PAN-ASIAN RESUSCITATION OUTCOMES STUDY (PAROS) CLINICAL RESEARCH NETWORK

The Pan-Asian Resuscitation Outcomes Study (PAROS) is a collaborative research group formed in 2010 with the aim to improve outcomes from Pre-hospital and Emergency Care across the Asia-Pacific region by promoting high quality research into resuscitation.

Participating countries



INDONESIA





How do we commence?

Pre-Hospital Workgroup for EMS Development Project



Team members:

- Sri Andarini, MD, PhD (Public Health)
- 2. Saifur Rohman, MD, PhD (Cardiologist)
- 3. Hidayat Suyuti, MD, Phd (Research Board Director)
- 4. Ali Haedar, MD (Emergency Physician)
- 5. Yuddy Imowanto, MD (Emergency Physician)
- 6. Suryanto Eko Agung, MD (Emergency Physician)

The Starting Point



- We have commenced the preliminary International Study on Out-of-Hospital Cardiac Arrest (OHCA) since 1 March 2012
- Only in Saiful Anwar General Hospital
- 3 patients are included in 1 month period, with 2 ROSC cases
- 45 patients are excluded (who are immediately pronounced dead, and for whom resuscitation is not attempted).

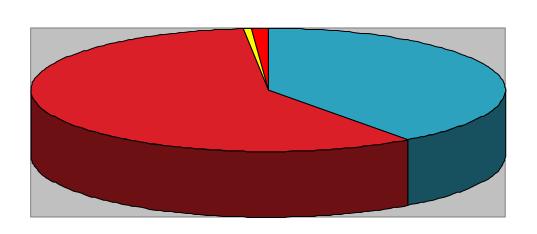
Why only 3 cases...

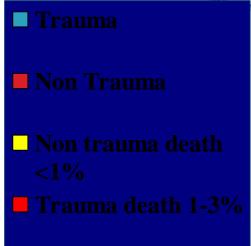


- Malang is small town
- Only 1 hospital engaged
- Citizen's poor knowledge of Ambulance 118 services
- Very-low income family ≈ unaffordable ambulance cost
- Victims are immediately pronounced dead, and resuscitation is not attempted

Emergency cases in RSSA (Haedar, 2007)







Trauma = 13,383 (49.7%) out of 26,907 total annual attendance Trauma cases = 36 persons/day

Men = 9758 (72.92%), women = 3625 (27.08%)

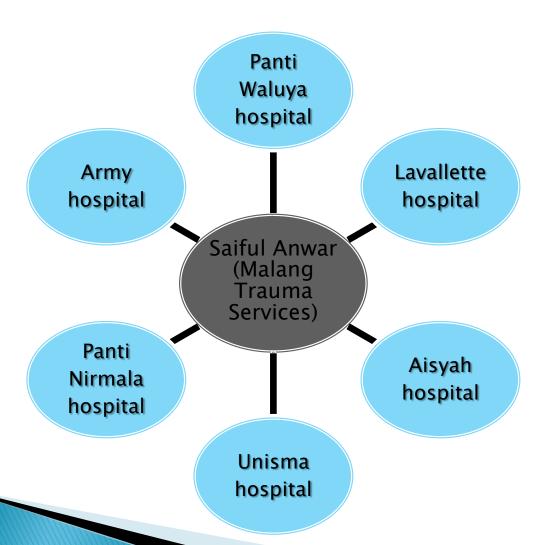
Saiful Anwar General Hospital Malang:

- 23,747 (89%) were brought by other vehicles
- 3160 (11%) were brought by ambulance, without proper pre-hospital management:
 - 348 (11%) died as they arrived in the hospital



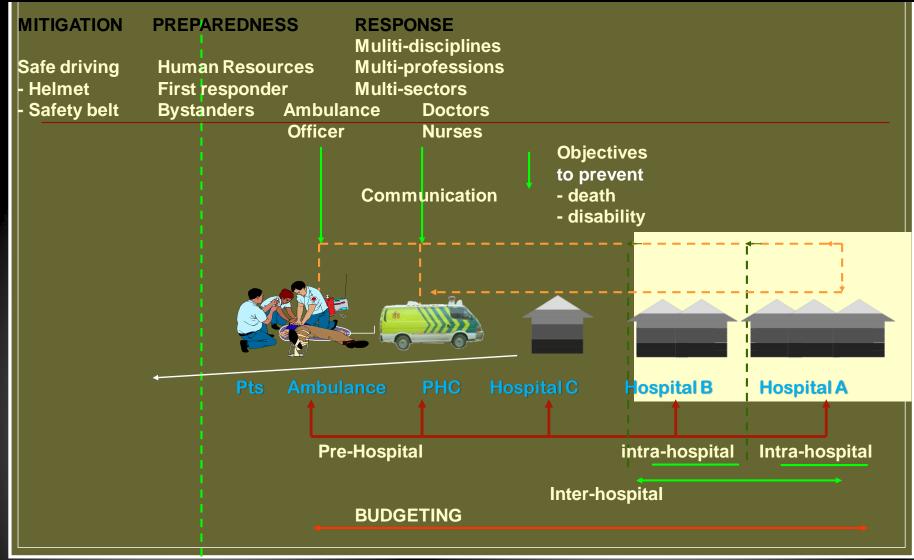
Our plans to extend the study

Hospital Networks in Malang





SPGDT-S (Daily Integrated Emergency Care System)



TIME SAVING IS LIFE SAVING
SHORTEN RESPONSE TIME
REFER THE RIGHT PATIENT, TO THE RIGHT PLACE AT THE RIGHT TIME

Prof. Hideharu Tanaka encouraged the importance of EMS services





Layperson CPR and defibrillation in the public area- the Japanese experience

Hideharu Tanaka MD,PhD,

Professor and Chairman



EMS systems, Graduate School, Kokushikan University

Member of Resuscitation committee, AED committee, CPR implementation committee

April 2012 at Surabaya, Indonesia

Steps



- To invite satellite hospitals in Malang to join the research
- To collaborate with Malang Trauma Services (Ambulance 118)
- 3. To invite other Emergency physicians from hospitals in other cities/town to join the research



Challenges Encountered

Challenges encountered



- 1. We are still proposing a budget from the University/Hospital
- 2. The grant will only be given in July 2012
- Non-standardized emergency dispatch records, ambulance patient case notes, and emergency department records
- 4. EM is NOT recognized as yet by the Indonesia College of Medicine... But probably by contributing to EMS system will help
- 5. IRB or approval letter pending



DISASTER & PRE-HOSPITAL MEDICAL RECORD

Division of Disaster Medicine
Department of Emergency Medicine
Faculty of Medicine - University of Brawljaya, INDONESIA

_				
DATE :	\perp	Ш		ID :
NAME :				DISPATCH INFORMATION : Transferred Cornect alone Dispatched
ADDRESS :				By: Location:
_				TRIAGE: IMMEDIATE (PI) DELAYED (F2) MINOR (F3)
PHONE NO :				CASETYPE:
MOBILE PHONE :				☐ Trauma ☐ Non Trauma
MUDICETTURE :				Dissuster Victim Non Victim
006 :		AGE:	GENDER: Male Perrale	
TIME LOG	Time Call Receive	ed :		Time From Scene :
		1	1 1 1 1	
	Time Entoute			Time at Dectination :
	Time Arrived at 1	icene :		Tirms at Ease :
POSITION ON ARRIVAL		DISPOSITION	CENVICAL SPINE INJUNY	CHEF COMPLAINT (NON TRAJIMA)
☐ Standing		extreent Required	□ Yes □ No	☐ Cardiac Arrest
☐ Sitting		nt Refused Care	SIGH	☐ Pain Officed Others Office Office OAbdomen Otherentities
☐ Frone Lying		on Scene	☐ Normal ☐ Jaundice	Oother, specify:
☐ Supine Lying	☐ Cano		☐ Fale ☐ Disphoretic	□ Vornitting
☐ Trapped	□ NoFe	vient Found	☐ Cyanotic	☐ Weakness C) Carebro Vascular Accident / Stroke
				Other, specify:
AIRWAY	DREATH		CINCULATION	Clambona
☐ dear	□ Norm		Capillary Rafil Acral	☐ Bleeding Olice OGT Ottogenital
Partial Obstruction	☐ Shall		☐ Normal ☐ Warm	O'Other, specify:
☐ Coreplete Obstruction			□ Delayed □ Cold	□ Officulty of breathing O Anthrea O Cords Challens O COPO
☐ Strider	☐ Tachy		□ None	Other, specify:
□ Other	□ othe	,	Pulse	□ tplepsy
PAST MEDICAL HISTORY	r		□ Normal	Abared Mental Status O Hypoglycensia O Alcoholic Intoxication
☐ Diabetes			☐ Part and Soft	Other , specify:
☐ Hypertension			☐ Unpalpable	☐ Others, specify:
☐ Arthre				U Others, specify:
Renal Pallure				
Convulsions				CHEF COMPLAINT (TRAUMA)
☐ Fainting spells				Mechanism of Injury
☐ Heart Froblem				☐ Trauma-Stunt: ODecaleration: Offalls: OCrush Injury
☐ Eleading Claorder				☐ Penatrating
ALLERGY (Food, medication, animal, plant)				☐ diest
Means specify:				Amputation
Cancer, site:				□ Burns
Other, specify:				Politioning
Medication :				Drowning
				☐ Other, specify:
IF ROAD ACCIDENT				TYPE OF ACCIDENT SAFETY DEVICE USED (IF ANY)
Type of Vehicle				□ VehicleTraffic ORoad O Rail O Air O Sea □ Helmet
Lorry	☐ Bus	□ Cer		☐ Road-non traffic ☐ Seat Belt
☐ Fedal Cycle	☐ Van	☐ Motorcycle		☐ Suicide / Parassidide ☐ Air Beg
☐ Federitian	Others:			☐ Industrial Injury ☐ Safety Books
Position of Fatient	_			Sports/Recreational Injury
Delver Draweng	per Li Frontseat pa	minger		☐ Training Injury
□ fillion □ Regree	rt passenger			☐ Home Injury
Vehicle Collided with	п.	□ cer		Amark
Lony	□ Bus □ Van			Other, specify:
☐ Fedal Cycle ☐ Federitian	□ Others:	☐ Motorcycle		
Li receiman	Ti commi:			
			VITAL	ROMS
TIME	RESP	PULSE		CS R PUPILS L SKIN TEMP SWGG GLUCOSELEVEL
11111	Rate:	Rate:	☐ Alent	□ Normal □ □ Cool □ Moist
	☐ Regular	☐ Regular	☐ Voice	Constituted Constitution Consti
	☐ Shallow	☐ Imegular	□ fein	Skeptish Cymotic Journalise
	☐ Laboured		☐ Ureesp	☐ No reaction ☐ ☐ Werm
	Rate:	Rate:	☐ Alert	☐ Hormal ☐ ☐ Cool ☐ Molet
	☐ Regular	☐ Regular	☐ Volce	District Dry Dry
	☐ Shallow	☐ Imegular	☐ fein	Stugglish
	☐ Laboured		☐ Unwap	
	Rate:	Rate:	☐ Alert	Normal Cool Moint
	Regular	Regular	□ Voice	I Commence of the control of the con
	☐ Shallow	☐ Irregular	☐ Pain	Slugateh C Cyanotic Laundica



Standardized Medical Record for Disaster & Pre-hospital



Our Own Objectives & Outcomes



We aim to identify what we need for a standardized emergency dispatch records, ambulance patient case notes, and emergency department records

...in order to improve...

A better EMS system in Indonesia.



Thank you...